



## 128-07

### CONDUCTIVE ELASTOMERIC INK

**DESCRIPTION:** 128-07 is an ink/coating with high electrical conductivity for application by screen-printing, dipping and syringe dispensing. The product features excellent adhesion to Kapton, Mylar, and a variety of other substrates. The proper use of this feature can result in a significant cost saving or enhanced performance. This product is more flexible and elastomeric than traditional conductive inks. Some applications for 128-07 include, but are not limited to, RFID antennae, polymer thick film circuitry, and membrane switches and it has shown to have conductivity at over 50% elongation. 128-07 is a carbon version of 127-07.

#### TYPICAL PROPERTIES:

Viscosity (cps)	30,000 – 35,000
Filler	Carbon
Volume Resistance, max. ( $\Omega$ -cm)	0.075
Sheet Resistivity ( $\Omega$ /square/mil)	30
Hydrolytic Stability	Excellent
Useful Temperature Range ( $^{\circ}$ C)	-55 to +120

**SUGGESTED HANDLING & CURING:** 128-07 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI thinner 102-03 or 127-17. Prior to use, be certain to mix well to re-suspend filler. **Best properties** for most applications result when cured for 5 to 10 minutes at 175 $^{\circ}$ C. Excellent properties are also obtained on a variety of substrates by curing at temperatures ranging from 50 $^{\circ}$ C to 180 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications.

**STORAGE:** Shelf life: 6 months at 25 $^{\circ}$ C; or 9 months at -5 $^{\circ}$ C; or 12 months at -10 $^{\circ}$ C.

**SAFETY & HANDLING:** Use with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from skin. Xylene works especially well as a cleanup solvent.

*All technical information is based on data obtained by CMI personnel and is believed to be reliable. No warranty is either expressed or implied with respect to suitability in a particular application or possible infringements on patents.*